

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW***  
**KARYA ILMIAH : JURNAL ILMIAH**

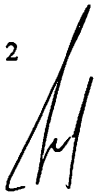
Judul Jurnal Ilmiah (Artikel) : Engine Torque Control of Spark Ignition Engine Using Robust Fuzzy Logic Control  
 Jumlah Penulis : 4 orang  
 Status Pengusul : penulis ke-1  
 Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Engineering and Technology (IJET)  
 b. Nomor ISSN : 1793-8236  
 c. Vol, No., Bln Thn : Volume 3 Number 4 (Aug. 2011)  
 d. Penerbit : International Association of Computer Science and Information Technology (IACSIT)  
 e. DOI artikel (jika ada) : DOI: 10.7763/IJET.2011.V3.252  
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 Alamat Artikel : <http://www.ijetch.org/papers/252-JT364.pdf>  
 g. Terindex : DOAJ, ProQuest, Electronic Journal Library

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional  
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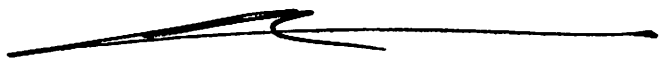
Reviewer 2



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Semarang,  
Reviewer 1



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 NIP. 196906121994031001  
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a. Kelengkapan unsur isi jurnal (10%)	2,00			2,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00			5,50
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- Kelengkapan unsur dan kualitas terbitan:** *Jurnal cukup berkualitas, sayangnya belum terindex Scopus atau yang setara.*

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# Aris Triwiyatno

Universitas Diponegoro  
Artificial Intelligent

## BUAT PROFIL SAYA

	Semua	Sejak 2014
Kutipan	170	138
indeks-h	6	6
indeks-i10	4	2

JUDUL	DIKUTIP OLEH	TAHUN
<b>Sentinel web: Implementation of Laravel framework in web based temperature and humidity monitoring system</b> L Alfat, A Triwiyatno, RR Isnanto 2015 2nd International Conference on Information Technology, Computer, and ...	17	2015
<b>Engine Torque Control of Spark Ignition Engine using Fuzzy Gain Scheduling.</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra Telkomnika 10 (1)	15	2012
<b>Buku ajar sistem kontrol analog</b> A Triwiyatno Lembaga Pengembangan dan Penjaminan Mutu Pendidikan UNDIP, Semarang	12	2015
<b>Engine Torque Control of Spark Ignition Engine Using Robust Fuzzy Logic Control</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra International Journal of Engineering and Technology 3 (4), 352	12	2011
<b>Smart controller design of air to fuel ratio (AFR) and brake control system on gasoline engine</b> A Triwiyatno, EW Sinuraya, JD Setiawan, S Munahar 2015 2nd International Conference on Information Technology, Computer, and ...	7	2015
<b>Perancangan Sistem Suspensi Aktif Nonlinier Tipe Paralel dengan Kendali HYbrid Fuzzy PID Pada Model Kendaraan Seperempat</b> DT Santosa, AT Sumardi, LTK Otomatik Semarang, Universitas Diponegoro	7	2012
<b>Desain Kontrol Air Fuel Ratio (AFR) pada Model Spark Ignition Engine Dengan Metode Hybrid Fuzzy PI</b> A Triwiyatno, B Setiyono TRANSIENT 2 (2), 216-224	6	2013
<b>Perancangan Arm Manipulator 4 DOF Dengan Menggunakan Pengendalian Cartesian Space-Trajectory Planning</b> MF Faris, A Triwiyatno, I Setiawan TRANSIENT 1 (4), 151-158	6	2012
<b>A NEW METHOD OF ROBUST FUZZY CONTROL: CASE STUDY OF ENGINE TORQUE CONTROL OF SPARK IGNITION ENGINE.</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra International Journal of Academic Research 3 (5)	6	2011

JUDUL	DIKUTIP OLEH	TAHUN
<b>Desain Auto Tuning PID Menggunakan Logika Fuzzy Pada Sistem Suspensi Aktif Tipe Paralel Nonlinear Model Kendaraan Seperempat</b> O Bagus, S Sumardi, A Triwiyatno Transmisi 15 (3), 114-120	5	2013
<b>Perancangan Sistem Kontrol Genetic-Fuzzy: Studi Kasus Pada Pengendalian Top And Side End Point Composition Dan Bottom Reflukstemperature Pada Distillation Column</b> M Safitri, A Triwiyatno, W Wahyudi Transmisi 14 (3), 85-90	5	2012
<b>Pengaturan sudut fasa berbasis logika fuzzy untuk sistem pengaturan temperatur</b> SK Laksono, S Sumardi, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik Undip	5	2011
<b>Engine torque control of si engine using linear quadratic integral tracking (LQIT) Optimal Control</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra IPTEK The Journal for Technology and Science 22 (4)	4	2011
<b>Desain Kontroler Fuzzy pada Model Automatic Braking System dengan Antilock</b> R Ahmaliansyah, A Triwiyatno, B Setiyono Penelitian S-1, Universitas Diponegoro	3	2013
<b>Perancangan dan Simulasi Sistem Tracking Panel Surya Dua Derajat Kebebasan Menggunakan Metode Kendali Logika Fuzzy</b> YA Prabowo, A Triwiyatno, S Sumardi TRANSIENT 2 (3), 463-470	3	2013
<b>PEMODELAN DAN SIMULASI ROLL, PITCHDANYAW PADA QUADROTOR</b> OD Saputra, A Triwiyatno, B Setiyono Transmisi 14 (4), 111-118	3	2012
<b>Fuzzy State Observer Design for Engine Torque Control System of Spark Ignition Engine</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra Transmisi 11 (3), 159-165	3	2011
<b>Modeling of deceleration Fuel cut-off for LPG fuelled engine using Fuzzy logic controller</b> M Setiyo, S Munahar, A Triwiyatno, JD Setiawan International Journal of Vehicle Structures and Systems 9 (4)	2	2017
<b>PERANCANGAN ROBOT BIPEDAL DENGAN SISTEM BERJALAN BERBASIS INVERSE KINEMATIC DENGAN SENSOR MPU 6050 SEBAGAI INDIKATOR KEMIRINGAN</b> AR Kurniawan, A Triwiyatno, S Sumardi TRANSIENT 6 (1), 97-102	2	2017

JUDUL	DIKUTIP OLEH	TAHUN
<a href="#">Development of hovercraft prototype with stability control system using PID controller</a> MA Riyadi, L Rahmando, A Triwiyatno 2016 3rd International Conference on Information Technology, Computer, and ...	2	2016
<a href="#">Desain Kontroler PID Adaptif Berbasis ANFIS untuk Pengaturan Rasio Perbandingan Udara dan Bahan Bakar (AFR) pada Model Mesin Bensin 4 Langkah</a> A Triwiyatno, YA Candra, B Setiyono Transmisi 18 (1), 22-29	2	2016
<a href="#">Perbandingan Kinerja Kontrol Optimal Linear Quadratic Integral Tracking Dengan Algoritma Genetika Dan Linear Quadratic Tracking Untuk Pengendalian Ketinggian Air Dan Temperatur ...</a> RF Mardhika, A Triwiyatno, B Setiyono Transient 4 (3), 753-762	2	2015
<a href="#">Perancangan Self Balancing Pitch Control Dengan Metode Kontrol Fuzzy Pada Unmanned Aerial Vehicle Fixed Wing</a> AP Wijaya, A Triwiyatno, B Setiyono Transmisi 17 (4), 162-171	2	2015
<a href="#">Perancangan Kontrol Fuzzy Adaptif Pada Sistem Kontrol Kecepatan Stasioner Mesin Bensin</a> MFN Reimansyah, A Triwiyatno, B Setiyono Jurnal Nasional Teknik Elektro dan Teknologi Informasi 3 (3), 215-221	2	2014
<a href="#">DESAIN SISTEM KONTROL RASIO PERBANDINGAN UDARA DAN BAHAN BAKAR (AFR) PADA MESIN 4 LANGKAH DENGAN METODE PENALAN PID BERBASIS LOGIKA FUZZY</a> MD Nuralamsyah, A Triwiyatno, B Setiyono TRANSIENT 2 (2), 353-361	2	2013
<a href="#">DESAIN SISTEM KONTROL ADAPTIVE NEURO FUZZY INFERENCE SYSTEM (ANFIS) STUDI KASUS: PENGONTROLAN KETINGGIAN AIR DAN TEMPERATUR UAP STEAM DRUM BOILER</a> FA Alifia, A Triwiyatno, W Wahyudi TRANSIENT 1 (4), 311-319	2	2012
<a href="#">Fuel Saving Strategy in Spark Ignition Engine Using Fuzzy Logic Engine Torque Control</a> A Triwiyatno, S Sumardi Makara Journal of Technology 16 (1), 35-42	2	2012
<a href="#">Perancangan Simulasi Supervisory Control and Data Acquisition pada Prototipe Sistem Listrik Redundant</a> MS Kurniawan, I Setiawan, A Triwiyatno Universitas Diponegoro, Semarang	2	2012
<a href="#">Perancangan dan Pembuatan Plant Ball and Beam</a> W Muslim, A Warsito, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik	2	2011

JUDUL	DIKUTIP OLEH	TAHUN
<b>Optimal-Fuzzy Control Design: Case Study of Engine Torque Control of Spark Ignition Engine</b> A Triwiyatno a a 2, 1	2	2011
<b>Quadruped Robot with Stabilization Algorithm on Uneven Floor using 6 DOF IMU based Inverse Kinematic</b> RC Prayogo, A Triwiyatno 2018 5th International Conference on Information Technology, Computer, and ...	1	2018
<b>The design of connection solid oxide fuel cell (SOFC) integrated grid with three-phase inverter</b> A Triwiyatno, H Thalib IOP Conference Series: Materials Science and Engineering 316 (1), 012057	1	2018
<b>Design of pick and place robot with identification and classification object based on RFID using STM32VLDISCOVERY</b> MA Riyadi, N Sudira, MH Hanif, A Triwiyatno 2017 International Conference on Electrical Engineering and Computer Science ...	1	2017
<b>Perancangan Air to Fuel Ratio (AFR) Clustering Berbasis Jaringan Saraf Tiruan pada Model Mobil Bermesin Injeksi Bensin Berdasarkan Profil Karakteristik Mengemudi Pengendara</b> SYE Pratama, A Triwiyatno, B Setiyono TRANSIENT 6 (1), 22-28	1	2017
<b>Perancangan Sistem Otomatisasi Penyimpanan Barang Berbasis Klasifikasi RFID Pada Robot Pick And Place Menggunakan Programmable Logic Controller (PLC) Omron CPM1A</b> MH Hanif, A Triwiyatno, MA Riyadi Transmisi 19 (1), 1-7	1	2017
<b>SISTEM INFORMASI AKADEMIK SMP NEGERI 1 LASEM BERBASIS ANDROID</b> ARM Annas, M Soemantri, A Triwiyatno TRANSIENT 5 (2), 226-232	1	2016
<b>Perancangan Sistem Kontrol Hybrid Fuzzy PI Untuk Pengaturan Ignition Timing pada Model Spark Ignition Engine</b> SF Situmorang, A Triwiyatno, B Setiyono TRANSIENT 4 (3), 727-733	1	2015
<b>Perancangan Sistem Keamanan Hak Akses Pintu AKPOL Semarang Menggunakan RFID</b> P Gambiro, A Triwiyatno, B Setiyono TRANSIENT 3 (3), 332-340	1	2014
<b>DESAIN SISTEM KONTROL SUDUT PITCH, ROLL, DAN YAW PADA MODEL PESAWAT FIXED WING DENGAN METODE KONTROL OPTIMAL LINEAR QUADRATIC INTEGRAL TRACKING (LQIT)</b> M Iqbal, A Triwiyatno, B Setiyono TRANSIENT 3 (2), 224-230	1	2014

JUDUL	DIKUTIP OLEH	TAHUN
<b>Desain Sistem Kontrol Robust Pid <math>H_{\infty}</math> Control Dengan Optimasi Genetic Algorithm Untuk Attitude Control Quadrotor UAV</b> MF Nasution, A Triwiyatno, B Setiyono TRANSIENT 2 (4), 981-988	1	2014
<b>Perancangan Kontrol Optimal Linear Quadratic Regulator (LQR) Dengan Glowworm Swarm Optimization (GSO) Untuk Sistem Suspensi Aktif Model Kendaraan Seperempat</b> S Taini, S Sumardi, A Triwiyatno Transmisi 16 (1), 13-19	1	2014
<b>Desain Sistem Kontrol LQIT-Gain Scheduling PID untuk Way Point Tracking Control Quadrotor UAV</b> AE Mulyono, A Triwiyatno, S Sumardi Jurnal Nasional Teknik Elektro dan Teknologi Informasi 3 (2), 129-135	1	2014
<b>PERANCANGAN FUNGSI PERINTAH PADA MIKROKONTROLER ATMEGA8535 MELALUI ROUTER WI-FI</b> RA Prastomo, A Triwiyatno, RR Isnanto TRANSIENT 2 (3), 688-693	1	2013
<b>Perancangan Model Predictive Control (MPC) pada Proses Quadruple Tank</b> TB Setiyo, A Triwiyatno, S Sumardi TRANSIENT 2 (3), 565-572	1	2013
<b>Desain Model Predictive Control (MPC) Pada Shell Heavy Oil Fractionator (SHOF)</b> SB Purba, A Triwiyatno, B Setiyono TRANSIENT 2 (3), 422-429	1	2013
<b>Desain Kontrol Inverted Pendulum Dengan Metode Kontrol Robust Fuzzy</b> RD Imami, A Triwiyatno, S Sumardi TRANSIENT 2 (1), 168-175	1	2013
<b>IMPLEMENTASI RFID UNTUK IDENTIFIKASI BUKU PADA PERPUSTAKAAN</b> M Adhitama, A Triwiyatno, B Setiyono TRANSIENT 2 (1), 24-31	1	2013
<b>OPTIMASI LINTASAN MODEL LENGAN ROBOT PUMA560 MENGGUNAKAN ALGORITMA GENETIK</b> P Wahyu, W Wahyudi, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik Undip	1	2011
<b>Pengaruh Perbedaan Tipe Fungsi Keanggotaan Pada Pengendali Logika Fuzzy Terhadap Tanggapan Waktu Sistem Orde Dua Secara Umum</b> S Suratno, S Sudjadi, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik Undip	1	2011



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<b>Simulator Otomatisasi Mesin Rotary Pemotong Pipa Menggunakan Mikrokontroler AT 89C51</b> S Wardoyo, S Sumardi, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik Undip	1	2011
<b>Aplikasi Intellution FIX untuk Sistem Pengawasan Motor Induksi 3 Fasa Berbasis PLC</b> RH Harahap, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik Undip	1	2011
<b>Aplikasi Mikrokontroler AT89C51 untuk Pengendalian Kecepatan Motor DC dengan menggunakan Gelombang Radio sebagai Media Transmisi</b> Y Andriana, S Sumardi, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik	1	2011
<b>PENGATURAN KADAR GARAM PADA HABITAT IKAN LAUT DENGAN MENGGUNAKAN KONTROL ON-OFF</b> M Alfiannur, A Warsito, A Triwiyatno Jurusan Teknik Elektro Fakultas Teknik	1	2011
<b>TS fuzzy model design for engine torque control system of spark ignition engine</b> A Triwiyatno, M Nuh, A Santoso, IN Sutantra Transmisi 11 (4), 177-182	1	2009
<b>Desain Kontrol Inverted Pendulum Dengan Metode Kontrol Robust Fuzzy</b> R Dwi Imami, A Triwiyatno, S Sumardi Peer Review dll	1	
<b>Design of Data Acquisition System for Position and Attitude Quadcopter</b> A Triwiyatno, H Afrisal, DA Putra, T Rahmadani 2019 6th International Conference on Information Technology, Computer and ...		2019
<b>SISTEM PENDETEKSI KADAR GAS METHANA (CH<sub>4</sub>) BERBASIS IOT MENGGUNAKAN NODEMCU ESP8266 DAN SENSOR GAS MQ-5</b> DA Putra, T Rahmadani, AD Wicaksono, A Triwiyatno Transient: Jurnal Ilmiah Teknik Elektro 8 (2), 181-186		2019
<b>An Analysis of Correlation of the Distances between Turbines in a Turbine Farm with their Power and Cost</b> JS Habiby, A Triwiyatno, T Andromeda IOP Conference Series: Materials Science and Engineering 598 (1), 012025		2019
<b>KURSI RODA ELEKTRIK DENGAN SISTEM PEMANTAUAN KESEHATAN PENGGUNA, LOKASI, DAN PENDETEKSI KECELAKAAN BERBASIS IOT</b> FT Ashegaf, BAD Naipospos, BB Bimantoro, A Triwiyatno Transient: Jurnal Ilmiah Teknik Elektro 8 (2), 119-127		2019

JUDUL	DIKUTIP OLEH	TAHUN
<b>PERANCANGAN KENDALI SUHU PADA PURWARUPA PENERING PAKAN IKAN MENGGUNAKAN METODE KONTROL PI BERBASIS MIKROKONTROLER</b> A Jaelani, A Triwiyatno, S Sudjadi TRANSIENT 7 (3), 745-752		2019
<b>PERANCANGAN SISTEM MONITORING SUHU DAN KADAR AIR PAKAN IKAN PADA PURWARUPA PENERING PAKAN IKAN MENGGUNAKAN VISUAL STUDIO</b> Z Zulkarnain, A Triwiyatno, S Sudjadi TRANSIENT 7 (3), 721-728		2019
<b>Fuel Saving Strategy in Spark Ignition Engine Using Fuzzy Logic Engine Torque Controls</b> A Triwiyatno, S Sumardi engrXiv		2019
<b>Design of Adaptive PID Controller For Fuel Utilization in Solid Oxide Fuel Cell</b> A Triwiyatno, E Julian 2018 5th International Conference on Information Technology, Computer, and ...		2018
<b>PENDETEKSIAN OBJEK MENGGUNAKAN ALGORITMA HSV BERBASIS RASPBERRY PI 3B</b> T Rahmadani, WD Nugroho, A Triwiyatno TRANSIENT 7 (2), 152-155		2018
<b>PERANCANGAN KONTROLER PID UNTUK PENGATURAN SUHU CAIRAN PADA DISPENSER KOPI INSTAN OTOMATIS</b> AN Fadilah, A Triwiyatno, B Setiyono TRANSIENT 7 (2), 621-627		2018
<b>PENGENDALIAN SUHU MENGGUNAKAN KONTROLER PID PADA PROTOTYPE MESIN PENERING FLUIDISASI GABAH</b> AKT Laksmi, T Andromeda, A Triwiyatno TRANSIENT 7 (2), 500-507		2018
<b>PERANCANGAN ROBOT BERKAKI 4 (QUADRUPEL) DENGAN STABILIZATION ALGORITHM PADA UNEVEN FLOOR MENGGUNAKAN 6-DOF IMU BERBASIS INVERS KINEMATIC</b> RC Prayogo, A Triwiyatno, S Sumardi TRANSIENT 7 (2), 543-551		2018
<b>APLIKASI METODE INTERNAL MODEL CONTROL (IMC) 1 DEGREE OF FREEDOM (DOF) DALAM PENGENDALIAN SUHU PADA PROTOTYPE SISTEM HOT ROOM</b> FA Saktian, A Triwiyatno, S Sudjadi TRANSIENT 7 (1), 214-222		2018

JUDUL	DIKUTIP OLEH	TAHUN
Intact stability and seakeeping characteristics of autonomous surface vehicle (asv) using swath hullform to support bathymetry survey activities on the coastal area ZA Fauzan, A Triwiyatno, B Sasmito, MH Nubly MATEC Web of Conferences 177, 01001		2018
The Design of Object Tracking System in Robot Vision Using Circle Hough Transform and CAMSHIFT Methods ML Bukhori, A Triwiyatno, RR Isnanto		2018
PERANCANGAN HUMAN MACHINE INTERFACE (HMI) PADA ROBOT PICK AND PLACE S Rahardian, A Triwiyatno, T Andromeda TRANSIENT 6 (2), 305-311		2017
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